

The invention claimed is:

1. A spray booth, comprising:

an enclosure defining a spray application area and including a gas inlet positioned to provide a gas into the spray application area;

a gas exhaust duct including an entrance and an exit, wherein the entrance to the gas exhaust duct includes a plurality of apertures, and wherein the entrance of the gas exhaust duct is positioned to receive the gas mixed with a spray from the spray application area;

an exhaust fan positioned to draw the gas from the gas inlet through the spray application area and into the gas exhaust duct; and

a fluid pump coupled to a source of fluid and a fluid supply pipe, wherein the fluid supply pipe is positioned to direct a fluid into the plurality of apertures at the entrance of the gas exhaust duct and thereby remove overspray from the gas drawn from the spray application area.

2. The booth of claim 1, wherein the fluid is water.

3. The booth of claim 1, wherein the spray is a solvent-based paint.

4. The booth of claim 1, wherein the spray is a water-based paint.

5. The booth of claim 1, wherein the gas is air.

6. The booth of claim 1, wherein the entrance to the gas exhaust duct is configured as a basket and the plurality of apertures are formed in a floor of the basket.

7. The booth of claim 6, wherein the floor of the basket includes a centrally located deflection plate covering a portion of the plurality of apertures, and wherein the fluid supply pipe is positioned to direct the fluid onto the deflection plate.

8. A paint booth, comprising:

an enclosure defining a paint application area and including an air inlet positioned to provide air into the paint application area;

an air exhaust duct including an entrance and an exit, wherein the entrance to the air exhaust duct includes a plurality of apertures, and wherein the entrance of the air exhaust duct is positioned to receive the air mixed with paint from the paint application area;

an exhaust fan positioned to draw the air from the air inlet through the paint application area and into the air exhaust duct; and

a fluid pump coupled to a source of fluid and a fluid supply pipe, wherein the fluid supply pipe is positioned to direct a fluid into the plurality of apertures at the entrance of the air exhaust duct and thereby remove paint overspray from the air drawn from the paint application area.

9. The booth of claim 8, wherein the fluid is water.

10. The booth of claim 8, wherein the paint is a solvent-based paint.

11. The booth of claim 8, wherein the paint is a water-based paint.

12. The booth of claim 8, wherein the entrance to the air exhaust duct is configured as a basket and the plurality of apertures are formed in a floor of the basket.

13. The booth of claim 12, wherein the floor of the basket includes a centrally located deflection plate covering a portion of the plurality of apertures, and wherein the fluid supply pipe is positioned to direct the fluid onto the deflection plate.

14. The booth of claim 8, wherein the entrance to the air exhaust duct is configured as a basket and the plurality of apertures are formed in a floor of the basket, and wherein the floor of the basket includes a centrally located deflection plate and the fluid supply pipe is positioned to direct the fluid onto the deflection plate.

15. A fluid washer for a spray booth, the washer comprising:

a gas exhaust duct including an entrance and an exit, wherein the entrance of the gas exhaust duct includes a plurality of apertures and is positioned to receive a gas mixed with a spray from a spray application area;

an exhaust fan positioned to draw the gas from the spray application area into the gas exhaust duct; and

a fluid pump coupled to a source of fluid and a fluid supply pipe, wherein the fluid supply pipe is positioned to direct a fluid into the plurality of apertures at the entrance of the gas exhaust duct and thereby remove overspray from the gas drawn from the spray application area.

16. The washer of claim 15, wherein the fluid is water.
17. The washer of claim 15, wherein the spray is a solvent-based paint.
18. The washer of claim 15, wherein the spray is a water-based paint.
19. The washer of claim 15, wherein the gas is air.
20. The washer of claim 15, wherein the entrance to the enclosure is configured as a basket and the plurality of apertures are formed in a floor of the basket.
21. The washer of claim 20, wherein the floor of the basket includes a centrally located deflection plate, and wherein the fluid supply pipe is positioned to direct the fluid onto the deflection plate.
22. The washer of claim 15, wherein the enclosure includes a plurality of baffles.